

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compressor comprising:

a compressor mechanism, said compressor mechanism compressing and discharging a refrigerant, and

a motor driving said compression mechanism;

a stator core having a plurality of annularly combined core elements with a plurality of $3n$ teeth, where n is a natural number, and a concentrated winding applied over each one of said plurality of teeth;

a rotor rotatably mounted in the stator core, said rotor incorporating a plurality of $2n$ permanent magnets, a sectional form of at least one of the plurality of permanent magnets having a middle section being nearer to the center of the rotor than an edge section of the permanent magnet.

2. (Previously Amended) The compressor of claim 1,

wherein said plurality of permanent magnets is provided at a larger pitch relative to the stator coil pitch.

3. (Currently Amended) A compressor of claim 1,

wherein respective ones of said plurality of permanent magnets is provided at a larger pitch relative to the stator coil pitch of respective ones of the concentrated winding over each one of said plurality of teeth.

4. (Currently Amended) The compressor of claim 1, wherein comprising:

~~a compression mechanism, for compressing and discharging a refrigerant,~~

~~a motor driving said compression mechanism, said motor includes a stator core having a plurality of $3n$ teeth where n is a natural number, a concentrated winding applied over each one of said plurality of teeth and,~~

~~a rotor rotatably mounted in the stator core, the rotor incorporating a plurality of $2n$ permanent magnets,~~ said plurality of permanent magnets are arranged around a rotor center, at least one of said plurality of permanent magnets has a first end and a second end each having respective surfaces facing said stator core and angled toward each other.

5. Cancelled

6. (Currently Amended) ~~A- The compressor of claim 1, wherein comprising:~~

~~a compression mechanism, for compressing and discharging a refrigerant, and~~

~~a motor driving said compression mechanism, said motor includes a stator core having a plurality of $3n$ teeth parts where n is a natural number, a concentrated winding applied over each one of said plurality of teeth parts, and~~

~~a rotor rotatably mounted in said stator core, said rotor incorporating a plurality of $2n$ permanent magnets,~~

~~an first outer periphery portion of outer circumference of said rotor is different in has a linear shape than a second outer periphery at a portion where the permanent magnets are adjacent of said rotor and said second outer periphery portion is positioned in the stator core.~~

7. (Previously Amended) A compressor of claim 1, further comprising a heat exchanger, wherein

a refrigerating cycle is enabled by the connection of said compressor and said heat exchanger for forming an air-conditioning device.

8. (Currently Amended) The compressor of claim 1, further comprising a heat exchanger, wherein

a refrigerating cycle is enabled by the connection of said compressor and said heat exchanger for forming an air-conditioning device refrigerator.

9. Cancelled

10. (Previously Added) The compressor of claim 1, wherein an interval "d" between the ends of each one of the plurality of teeth is smaller than the width of the winding.

11. (Previously Added) The compressor of claim 1, wherein end portions of the adjacent magnets face each other.

12. (Previously Added) The compressor of claim 1, wherein said refrigerant includes HFC (Hydro-Fluoro-Carbon).

13. (Previously Added) The compressor of claim 1, wherein said refrigerant includes a carbon dioxide.

14. (Previously Added) The compressor of claim 1, wherein said refrigerant includes HC (Hydro-Carbon).

15. (New) A compressor comprising:

a compressor mechanism, said compressor mechanism compressing and discharging a refrigerant, and

a motor driving said compression mechanism;

a stator core having a plurality of annularly combined core elements with a plurality of teeth and a concentrated winding applied over each one of said plurality of teeth;

a rotor rotatably mounted in the stator core, said rotor incorporating a plurality of permanent magnets]

formed of two layers and having an arc convex shape toward a center of the rotor, and

including an inside permanent magnet separated by a gap from an outside permanent magnet, a width of the gap being greater than 1/3 of one tooth of the plurality of teeth,

end portions of the plurality of permanent magnets extending to a position adjacent to an outer circumference of the rotor, and said plurality of permanent magnets are multi-layered.

16. (New) The compressor of claim 1, wherein the sectional form of each of the plurality of permanent magnets has a flat shape or a V shape.
17. (New) The compressor of claim 1, wherein the core elements are coupled.
18. (New) The compressor of claim 1, wherein the core elements are coupled at respective sections of the core elements, the respective sections being thin and capable of being bent.